

UBC Reports

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Master's course aimed at business

by Debora Sweeney

Recognizing a need for more Canadian expertise in the field of advanced technology, UBC is establishing a new master's degree program.

The Master's Degree in Advanced Management Technology is a first for a major Canadian university, according to UBC President David Strangway.

"We want to show that we're taking leadership in technology and business," said Strangway. "The program is in recognition of the need for people who can carry out the technology, but who also have the business skills."

The degree will allow students to combine graduate level studies in science, engineering and MBA level management courses during two years. Currently, it would take a student up to six years to obtain master's degrees in each discipline.

The program requires an undergraduate degree in science or engineering.

"We'll provide a combination of skills which are important for corporate leaders faced with rapid advances in technology," said Dr. Robert Miller, Dean of the Faculty of Science.

"We hope to fulfill an urgent demand to improve Canada's international competitiveness," added Dr. Peter Lusztag, Dean of the Faculty of Commerce.

The program will include a summer internship in a company in North America or overseas, preferably in Pacific Rim countries.

"The technology going on in the Pacific Rim is so crucial to us that we have to learn some of their skills," said Strangway.

A task force from the faculties of science, applied science and commerce has been established to draw up guidelines for the master's program. The guidelines must be approved by those faculties and by the faculty of graduate studies before they go to the board of governors and senate for final approval.

It is expected the program will be launched in the fall of 1989.

UBC will compete for federal funding

by Debora Sweeney

UBC researchers are ready, willing and anxious to compete for \$1.3 billion in federal science and technology funding, announced last week by Prime Minister Brian Mulroney.

"We're already bringing in large sums of competitively won dollars in research grants and funds," said UBC President David Strangway. "With the quality of what we're already doing, we're in an excellent position."

"The word that describes my state of mind is impatient," added Dr. Peter Larkin, vice-president, research. "We're waiting to jump out of the starting block and I want to know the rules of the game so we can get on with it."

The first two projects to receive financial support will be a series of "centres of excel-

lence" and a national scholarship program. The centres of excellence would enable universities to focus on specialized research in such areas as biotechnology, artificial intelligence, information technology and advanced industrial materials.

The federal government has not yet outlined how many centres there will be, where they will be, or who will administer them. Larkin expects the details to be released within a few weeks.

"It's absolutely inevitable we'll get at least one because we have excellent researchers who can compete on an international level," he said.

Larkin added that proposed programs which feature collaboration with other universities and which have provincial government backing will likely get "brownie points."

Funding for the centres and for the scholarship program will total close to \$300 million. That leaves another \$1 billion for projects that will be announced in the months ahead.

Strangway said he hopes the funding announcement is the first of many for science and technology.

"There has to be more that follows because this is what's necessary to make us internationally competitive," he said.

Housing planned

by Debora Sweeney

UBC is establishing a subsidiary company to administer a market housing development on 20 acres of university land.

The UBC Real Estate Corporation will oversee development of the land on the corner of 16th Avenue and Westbrook Mall.

The property is owned by UBC and is not part of the University Endowment Lands.

UBC President David Strangway said the decision to develop the 20 acre site is the result of the University's capital funding crisis.

"We're looking at developing market housing on non-endowment lands because it is a significant money generator for the University in the long-term," said Strangway.

According to recent reports, UBC needs more than \$342 million to build desperately needed buildings and catch up on repairs and renovations that are long overdue.

Building residential housing would generate at least \$3 million a year.

The project would include two high-rise apartments and four townhouse complexes which would house up to 640 units. Development is expected to take two to five years.

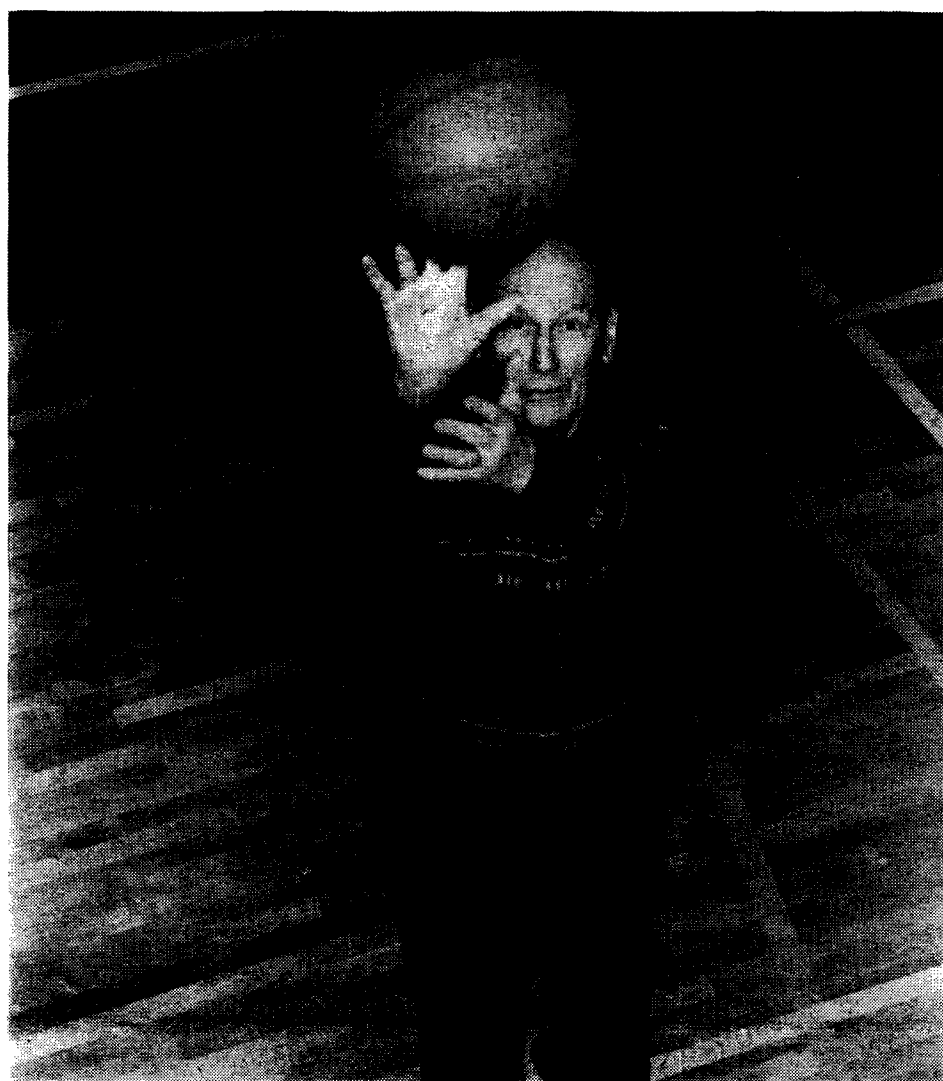


Photo by Warren Schmidt

Jack Pomfret takes aim at an active, satisfying retirement after more than 40 years at UBC

Pomfret hangs up boots, skates, trunks, cleats, etc.

by Jo Moss

Calculate the odds for Wayne Gretzky abandoning professional hockey for a coaching career at UBC.

Not good?

With athletic credentials that make Gretzky look like he doesn't try hard enough, retiring UBC faculty member Jack Pomfret did exactly that 40 years ago.

When he joined UBC's physical education program as an instructor in 1946, Pomfret was 24 years old and had already established himself as an athletic superstar in baseball, basketball, boxing, football, hockey, lacrosse, rugby, swimming and soccer.

He held the world record in breaststroke and a number of Canadian swimming records. He turned down pro tryouts in baseball with the New York Yankees and the Seattle Rainiers; and in hockey with the Vancouver Lions and New York Rangers.

Now, more than forty years later at age 65, Pomfret is retiring from the university after an impressive and distinguished career as coach, instructor and sports administrator.

He credits his father, a pro soccer player in England, with influencing his decision to instruct and coach rather than turn professional.

"My father was big on the educational standpoint and he was very much against pro sports," Pomfret said. "Also, pro sports didn't pay much at that time."

Pomfret downplays his own athletic record. He's proud of his teaching and coaching. He's a firm believer that sports should be an integral part of university life—for any student.

"It's a waste of life at school not to take advantage of what else is out there," he said. "I'm not a great believer in spending all your time with your nose in the books. It's beneficial to enjoy other areas and I'm not just talking about sports, but about dance, theatre and things like that."

As a student at the University of Washington where he got a B.A., and later an M.Sc. in Physical Education, Pomfret's list of athletic accomplishments is staggering. He was a member of the Huskies championship swimming team and in university boxing

competition held an unbroken record of wins. The only Canadian to captain the Huskies basketball team, he was selected to the Canadian Olympic team in 1948.

Pomfret said it's still possible for young athletes to excel in a variety of sports.

"It's a little ridiculous, to my mind, to play one sport 12 months of the year," he said. "It's the parents and coaches who bring this on and I question that attitude."

As a UBC coach Pomfret worked with the men's and women's Thunderbird basketball teams, the football team, and the swimming and diving team over the years. In 1971 he was recognized as CIAU Swim Coach of the Year.

Pomfret started to work with student groups on campus to initiate a first-class swimming facility in 1970. From 1973 on he served as chairman of the planning and coordination committee that drew up the design, supervised the construction, and coordinated the fund raising for the UBC Aquatic Centre—which finally opened September 1978.

His favorite sport?

"I did enjoy the camaraderie of basketball, the team aspect. But I don't have a number one favorite," he said.

Pomfret was assistant coach of the Canadian basketball team at the 1956 Olympics in Melbourne and a member of the central committee for the 1964 Canadian Olympic swim trials. He has also served the community as tournament and games director for the B.C. Boys High School basketball championships, consultant to the Vancouver Parks Board and other groups on pool construction and water safety programs, and as selection committee member for the B.C. Sports Hall of Fame.

For 17 years, until 1972, Pomfret was official football statistician at B.C. Lions Games, delivering live commentary for radio and TV.

In 1972, he was inducted into B.C.'s Sports Hall of Fame.

Asked about his plans for the future, Pomfret said he hadn't thought about it yet. He will be working closely with the School of Physical Education scholarship program and said he plans to be involved in yet another sport—curling.

GOLD MEDAL

UBC has captured another Gold Medal for its national weekly radio series UBC Perspectives with David Suzuki.

The series, produced by the Community Relations Office, this month received a Gold Medal for outstanding radio programming from the Council for the Advancement and Support of Education, a 2,800-member international organization based in Washington, D.C. UBC also received a CASE Gold Medal for the series in 1987.

The award-winning programs, produced by UBC Information Officer Lorie Chortyk and written by Vancouver writer/director John Wright, focused on topics ranging from AIDS research and seniors' rights to food preservation and the search for extra-terrestrial life.

The programs are hosted by Dr. David Suzuki and feature interviews with UBC faculty members. They are distributed by satellite to 256 radio stations across Canada by Broadcast News in Toronto. Production is currently under way for an upcoming 13-part series, scheduled to air in March.

Radio continued on Page 2

Bear with us

Computer errors resulted in a number of dropped lines in stories and inadequate spacing in headlines in the last issue of UBC Reports.

A new desktop publishing system has been installed in the Community Relations Office, and there were some unforeseen software problems. I am optimistic that the problems are short term and I look forward to using the new system to improve the overall design of the paper.

The Editor



UBC President David Strangway tries out exercise bike at the new sports medicine centre while Dr. Don McKenzie checks the monitoring equipment.

McGavin sports centre best in the country

by Jo Moss

A \$500,000 expansion of the B.C. Sports Medicine Clinic on the UBC campus makes it the best centre of its kind in Canada.

"There's no contest," said Co-Director Doug Clement. "The centre is now unmatched in terms of activities combining an academic and service function."

In an opening ceremony Monday, Jan. 25 the centre was formally renamed the Allan McGavin Sports Medicine Centre, after former UBC chancellor Allan McGavin who contributed enormously to sport during his career.

The expansion was funded by an Allan McGavin memorial fund and clinic fundraising activities. The university contributed \$300,000.

Prominent businessman David Lam donated \$10,000 for the purchase of a commemorative

sculpture which was unveiled at the ceremony. Titled "Orthokinetic", it's the work of Vancouver artist John Sund, 24, a student at the Emily Carr College of Art and Design. It is the most significant work sold by an ECCAD student in the history of the college.

A high profile service for recreational and elite performance athletes, the centre treats an average of 1,000 people a week. Patients come from all the western provinces as well as Yukon and the Northwest Territories.

The expansion of the facilities means patients won't have to wait weeks for treatment. And new sophisticated equipment will enable clinic staff to undertake major investigative research into sports injuries. A complete biomechanics laboratory with video cameras, for example, will allow researchers to study gait problems, especially as they relate to knee injuries.

Athletic changes to be implemented

by Jo Moss

The main thrust of task force recommendations on athletics and sport services at UBC have been approved by the president and most will be implemented this year, according to task force chairman, Vice-President of Student and Academic Services K.D. Srivastava.

Srivastava said he will set up a committee of five or six people to examine in detail one of the major issues the task force addressed—the management of campus sports facilities.

"It's not an easy task, there's 75 years of history to bring in as we look ahead," Srivastava said.

The study group, which includes student and alumni representatives, will examine, amongst other things, the daily scheduling and operation of sports facilities and submit an interim report by August of this year. According to Srivastava, a new management structure should be in place during the 1988/89 session.

Srivastava said he did not foresee any major problems in implementing task force recommendations.

"But it requires a lot of work. We have a long way to go," he said.

He said criticism from some campus groups on the task force recommendations was inevitable.

"When you have two departments with complementary, yet dissimilar, interests there will always be tension," he said. "I hope that we will be able to resolve the issues."

The task force called for submissions from faculty, staff and students before delivering its report in July 1987. The report was circulated to the campus community as an insert in UBC Reports and it invited further comment.

According to UBC president David Strangway, a number of comments and suggestions were received before the final decisions were made.

"Many of the issues raised will be addressed by the framework going into place, and by making the management process more effective," Strangway said.

Strangway said it is important the campus community has an opportunity for direct input before major university decisions are taken.

"I feel strongly that there should be this input on important issues," he said.

Strangway said the decision has been taken

that the Department of Athletic and Sport Services will not be integrated with the School of Physical Education. The current management structure will be revised and a management advisory committee set up to advise on joint activities.

Other task force recommendations included reorganizing the University Athletic Council (UAC) and completing a financial audit.



K.D. SRIVASTAVA

Srivastava said a formal management advisory committee will be in place shortly and will include the president of the Alma Mater Society; chairman of the UAC; Director of Physical Education and Recreation, Robert Morford; and Director of Athletics, Robert Hindmarch.

Reorganization of the UAC, and completion of the financial audit is underway.

Director appointed

By Jo Moss

Jack Leigh has been appointed Director of UBC's Computing Centre.

Acting director for the past two years, and associate-director prior to that, Leigh, 48, joined the centre as a programmer analyst in 1966.

"I've worked in various capacities since then and have been involved in all aspects of the business including consulting and development," he said.

Leigh holds an M.A. in Physics from UBC and is a Certified Data Processor.

The Computing Centre provides computing facilities, computer communications, and related support functions for teaching, research and administrative computing on campus.

The last 18 months has seen a major expansion in its operations.

"We've increased the variety of services available and are providing more consulting services and on-site assistance to campus departments," Leigh explained. "We've also extended our Ethernet network. Basically, we've made it easier for people on campus to communicate."

Leigh is also closely involved with the university's formal review of the Computing Centre currently underway.

"The President's Office asked for a formal review and the purpose is to make sure the computing centre is properly organized to meet the campus needs and to determine its future direction," Leigh said.

Still in its early stages, the review will take six to eight months to complete.

Ten years in the future, computer communications on campus will be quite different, Leigh predicts.

"We are turning away from being mainframe oriented towards becoming a centre that distributes services to the rest of the campus," he said. Personal computers will play an increasingly significant role with the mainframe computer, located in the Computing Centre, providing background support, he said.

"People will be able to interact on their PC in a way that is quite natural," Leigh explained. "In fact, we'll have succeeded at our job if people don't even know the mainframe exists."

Safety week

UBC's second annual Safety Awareness Week will be held Feb. 8 - 12.

It is an opportunity for safety committees across campus to discuss their activities and to emphasize the importance of health and safety related issues.

The health and safety committee will have a coffee from 9:30 - 11:30 on Thursday, Feb. 11, in SUB 207-9.

Legal study for elderly under way

by Lorie Chortyk

UBC researchers are beginning an 18-month study that examines how well our current laws and legal system serve B.C.'s aging population.

Prof. James Thornton, coordinator of UBC's Committee on Gerontology and law professor Donald MacDougall, are co-investigators of the study. A project director is expected to be named later this week. The study is being funded by the Law Foundation of British Columbia.

MacDougall, a world expert in the field of family law, said an in-depth look at legal services for the elderly is long overdue.

"Except for the area of guardianship law, there really hasn't been much research done on this topic in Canada," he said. "We hope to gather a base of information that can be used by educators, the legal profession and agencies that offer legal services to the elderly."

An advisory committee made up of representatives from government, the legal profession, and various community groups that serve the elderly is also involved in the project.

MacDougall said the study will focus on some critical issues facing elderly Canadians, including mandatory retirement, abuse of the elderly, withdrawal of medical services, protection of the institutionalized elderly, competency and guardianship criteria, and consumer protection.

"Our goal is to determine the type of legal

services the elderly need, how well Canadian laws protect the elderly, if older clients are being properly served by the legal profession and if educational institutions are preparing law students adequately to deal with elderly clients," he said.

MacDougall said that in some cases, Canadian laws are adequate for the elderly, but lawyers are not properly trained to deal with older clients.

"Lawyers are impatient, and they don't always take the time to listen to their older clients or explain to them what their rights are," he said. "The laws aren't much good to the elderly if they can't effectively evoke them. We'll be looking at what can be done to rectify situations like these."

Reports on the study findings will be sent to the Ministry of Justice Canada, the B.C. Attorney General, the Law Society of B.C., the Canadian Bar Association (B.C. Branch), the Legal Services Society, the Continuing Legal Education Society and law faculties at UBC and

the University of Victoria.

MacDougall would like to hear from anyone who has encountered problems related to the delivery of legal services to the elderly. He can be reached at 228-2369.

Panel slated

Arts undergraduates unsure of what the future holds for them after graduation may find inspiration in an upcoming panel discussion on campus.

"After the B.A...." brings together a panel of arts graduates who have found success in a wide range of fields, including business, media, arts and politics.

"After the B.A...." will be held on Monday, Feb. 8, at 4:30 p.m. at Cecil Green Park. It is co-sponsored by the Arts Faculty, the Arts Undergraduate Society and the Alumni Association.



Wheelchair athlete Rick Hansen, a UBC honorary degree recipient last year, was back on campus recently to present the new Rick Hansen Special Needs Bursary to the first two recipients of the award -- Ken Roesch and Gordon McGee.

Radio from Page One

UBC programming is also airing daily on 53 radio stations in B.C. through CKWX's Satellite Radio News network. The programs, which hit the airwaves last fall, are co-produced by CKWX and UBC's Community Relations Office. Upcoming programs highlight UBC research in the fields of children's literature, native Indian languages, food safety, organ transplants, sports medicine and fitness.

Plans are also under way in the Community Relations Office to bring CJOR Radio on-location to the campus in March for a special two-hour program on issues and concerns facing the university. CJOR's Michael Campbell Show, which airs from 3:30 to 5:30 p.m., is planning a close-up look at university research and some of the concerns facing UBC faculty, staff and students.



Photo by Steve Chan

It's eggs-actly what you think - a Thunderbird mascot ceremoniously hatched by Athletics last week to cheer on UBC's teams. As yet unnamed, the feathery fowl is the first official mascot the university has had.

Computer software aids music composers

By Gavin Wilson

Most composers today still write music the way it was done in the days of Mozart and Beethoven. But UBC music professor Dr. Keith Hamel is working at bringing musical notation, finally, into the 20th century.

He has created two computer software packages composers can use to write their scores. Instead of labored scrawlings in longhand, writers can now produce razor-sharp images with high-quality laser printers.

"It's something like writing books by hand," says Dr. Hamel of traditional methods. "And some people's handwriting is more legible than others'. You can imagine handing a conductor sheet music that's just penciled in."

VP search under way

An advisory committee is assisting President David Strangway in the search for a new Vice-President for Research. The successful candidate will replace Dr. Peter Larkin, who is leaving the President's Office to resume fulltime teaching and research.

The advisory committee will review applicants, interview short-list candidates and make a recommendation to the president. A recommendation will then be taken to the Board of Governors by Dr. Strangway for approval.

Although no starting date has been set for the new vice-president, committee member Prof. Cole Harris, Geography, said the committee would like to have the position filled by June, 1988.

The committee will look for an individual who understands the importance of research in the arts and humanities as well as in the sciences, according to another committee member, Prof. Herbert Rosengarten.

"We're looking for someone who understands the mission of the university and the importance of a broadly-based research program," said Rosengarten, who heads UBC's English Department.

Other committee members are: Dr. Daniel Birch, Vice-President, Academic and Provost; Prof. David Hardwick, Department of Pathology; Prof. Allan Freeze, Department of Geological Sciences; Prof. Dennis Pavlich, Faculty of Law; Prof. Martha Salcudean, Department of Mechanical Engineering; and Dean Nancy Sheehan, Faculty of Education.

As a composer himself, Hamel was all too familiar with the frustrations of hand-copying material. More frustration set in when the first computer software designed for writing music became available. It just wasn't up to the complex requirements of today's serious music.

"There's only two other software packages that are capable of handling professional quality notation," says Dr. Hamel, who joined the music faculty as an assistant professor in September.

"But they can't cope with the flexibility that many contemporary scores need. Your piece might not have any bar line or meter — things that are sometimes needed."

Some UBC music students already use computers routinely in their work, but Dr. Hamel foresees a day when all composers will work by the glow of a monitor screen.

"There could be a revolution in this area," he says. "More and more artists — especially composers — are beginning to use computers."

But to date the high cost of computer equipment and software has prevented widespread use in the arts.

"By and large, musicians don't have a lot of money," he notes. "The stereotype of the poor, starving composer still applies in some cases."

As well as ease of composition, Dr. Hamel's software allows composers the satisfaction of self-publication. Few contemporary composers ever get to see their works published; the cost of engraving music is just too high. It's so expensive that even the full orchestral score for one of the most popular musicals ever written, *West Side Story*, wasn't engraved until 1985, nearly 30 years after it was composed.

Dr. Hamel's newest software package, tentatively called MusScript, is designed for use with high quality laser printers and emphasizes professional publishing quality. "The new program is, essentially, desktop publishing for music," he says.

Dr. Hamel has been working on the program off and on for the past three years. Now it is close to completion.

The first software package he designed, called MusPrint, was marketed by word of mouth. It's being used by composers in universities throughout North America and even in Western Europe.

Dr. Hamel began dabbling with computers in high school, and later, as a graduate student at Harvard, became seriously interested in how computers can be used to enhance music. "The use of computers represents a very substantial change in the way we deal with music," he says. "There's a great potential there."

Brown appointed chairman of board

by Jo Moss

Peter Brown, chairman of Canarim Investment Corporation Ltd., has been named chairman of UBC's Board of Governors. He replaces William Sauder who has retired from the board.

Former UBC chancellor Bob Wyman is one of six new members appointed by the provincial government Dec. 17. Board members serve a three-year term.

The new members are: Kenneth Bagshaw, Ronald Granholm, Arthur Hara, Janet Ketcham, Richard Nelson, and Robert Wyman.

Kenneth Bagshaw, Q.C. is a senior partner of the Vancouver law firm Ladner Downs. A UBC graduate, Bagshaw is active in community affairs, and has served as president of the Vancouver Art Gallery, chairman of the B.C. Arts Board, and chairman of the Minister's Advisory Committee for the 1986 Festival of the Arts. He is currently a member of the B.C. Heritage Trust.

Ronald Granholm, a member of the B.C. Institute of Chartered Accountants, is currently president and CEO of Computrol Security Systems. A past director of the Vancouver Board of Trade, he was also a member of its executive committee for six years.

Granholm was a director of both B.C. Transit and the Metropolitan Transit Operating Company and is a former chairman, president and CEO of Johnston Terminals and Storage. He is currently a member of the Board of Trustees and Member of the Executive Committee for the Vancouver Art Gallery. He is also past chairman and member of the Board of Governors of the Business Council of B.C.

Chairman of Mitsubishi Canada Ltd., Arthur Hara is a member of the Order of Canada. Born in Vancouver, he's a graduate of the Advanced Management Program of the Harvard School of Business Administration and former chairman of the Vancouver Board of Trade. He is currently director of the Canadian Committee of the Pacific Basin Economic Council, chairman of the Asia Pacific Foundation of Canada, and member of the Board of Governors for the Business Council of B.C.

A graduate of Smith College and the University of Washington, Janet Ketcham has lived in Canada for the past 26 years. A resident of Vancouver since 1973, she is on the Board of Directors of numerous corporations including West Fraser Timber and Eurocan Pulp and Paper.

She has had extensive community involvement, especially in the arts, and was co-chairman of the \$5 Million Capital Building Fund for the Vancouver Art Gallery.

Born in New Westminster, Richard Nelson is president of Sentinel Vision Inc., a company that develops and produces electronic optical inspection equipment for the food processing industry.

He holds a B.A.Sc. in Mechanical Engineering from UBC (1953) and an M.B.A. from Harvard Business School. A director of the Manufacturers Life Insurance Company in Toronto, and the Vancouver Port Corporation, he has four children, two of whom are UBC graduates.

Chairman of Pemberton Houston Willoughby Inc., Robert Wyman was chancellor of UBC from 1984 to 1987. A graduate of UBC's Faculty of Commerce, he is now a director of B.C. Forest Products, B.C. Telephone Company, Glenayre, and Finning. He was also chairman of the Vancouver Board of Trade and of the Canadian Chamber of Commerce as well as director of the Hamber

Board confirms tuition increase

The Board of Governors approved on Jan. 19 a 4.5 per cent increase in undergraduate tuition fees, effective April 1.

The increase means students in most programs in Arts, Science, first-year Commerce and Education will pay \$1,455 for a normal course load, while fees for students in Medicine and Dentistry increase to \$2,511.

The Board also approved proposals to establish a deposit for telephone registration, the collection of tuition fees before classes begin unless special arrangements are approved, the inclusion of miscellaneous fees in the general tuition fee payment, new procedures for late registration and course changes and a 5.5 per cent increase in the student activity fee.

A recommendation to freeze first-year fees for master and doctoral students at the 1987-88 level was also approved.

Foundation and Koerner Foundation.

Board of Governors members reappointed for a second term are Peter Brown and Robert Lee.

Outgoing members are: Gerry Hobbs, David McLean, Joy McCusker, Bill Sauder and Richard Stewart.

Dr. Strangway said he is looking forward to working with the new board members and expressed his appreciation to the out-going members for their contribution to the university.

"I'm grateful to the members for their effective leadership in some of the difficult issues that the board has dealt with over the years," he said.

Construction contracts awarded

The Board of Governors has approved the awarding of contracts totalling \$15,128,000 for three major construction projects on campus.

UBC's Vice-President for Administration and Finance, Bruce Gellatly, said the Board authorized the university to award contracts up to \$7,500,000 for 77 townhouses and a commons area (phase III) in the Acadia Family Housing project; \$6,000,000 for the new campus parkade being constructed adjacent to the Student Union Building; and \$1,628,000 for phase III of the Biotechnology Laboratory in the Westbrook and Biological Sciences Buildings.

Gellatly said the university is waiting for approval from the provincial government to borrow \$4.5 million for construction of the parkade, which is scheduled for completion this fall. He said income generated by the parkade will be used to repay the loan over a 20 year period.

Vancouver Institute series starts

Experts from across North America will discuss who's responsible for illiteracy, how Canada can manage its financial deficit and how close we are to a cure for AIDS and cancer during the spring series of Vancouver Institute lectures at UBC.

The series began Jan. 23 with a lecture by Harvard University law professor Duncan Kennedy on "Radicalism in Elite Institutions", and wraps up March 19 with a lecture on "Financial Management and the Federal Deficit" by Canada's Auditor General Kenneth Dye.

All lectures in the Saturday evening series take place at 8:15 p.m. in Lecture Hall 2 of UBC's Woodward Instructional Resources Centre. Lectures are free and open to the public.

Upcoming speakers and their topics:

Jan. 30 — "Illiteracy: Naming the Guilty Party", by Peter Calamai, Southam Inc. correspondent, Washington, D.C.

Feb. 6 — "Education and Society: Insights from the Past", by Dr. Nancy Sheehan, dean, UBC Faculty of Education.

Feb. 13 — "Viruses, Cancer and AIDS: Today and Tomorrow", by Dr. Robert Gallo, National Cancer Institute, Bethesda, Maryland.

Feb. 20 — "The Outlook for Global Banking", by Donald Fullerton, chairman and chief executive officer, Canadian Imperial Bank of Commerce.

Feb. 27 — "The Inner Self", by Prof. Charles Taylor, Political Science, McGill University.

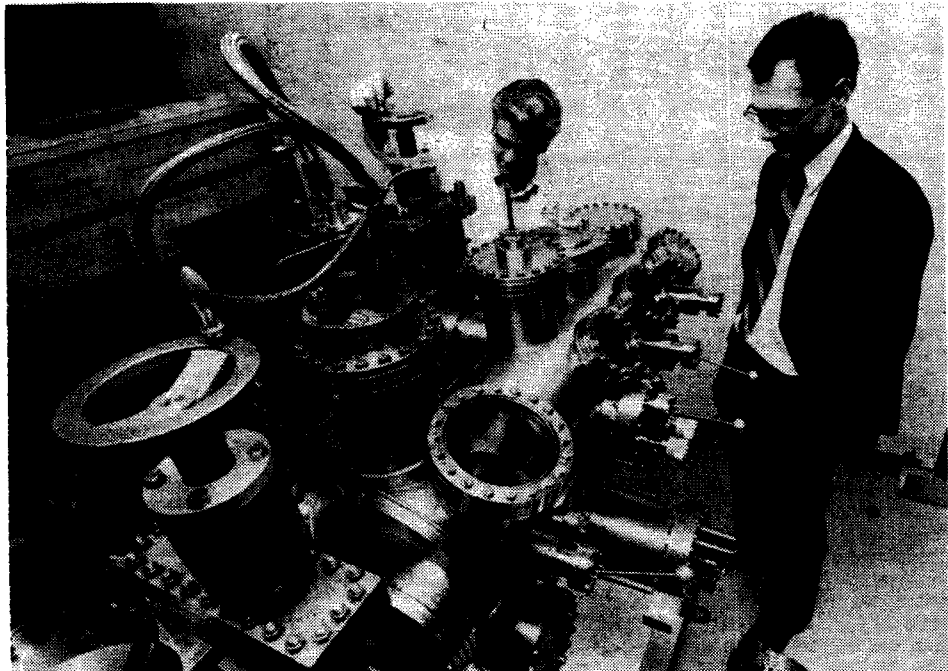
Mar. 5 — "From White Dwarfs to Black Holes: The Story of a Revolutionary Idea", by Prof. Werner Israel, Physics, University of Alberta.

Mar. 12 — "The Rise and Fall of the American Empire?", by Earl Foell, editor-in-chief, The Christian Science Monitor, Boston.

Mar. 19 — "Financial Management and the Federal Deficit", by Kenneth Dye, Auditor General of Canada.

A Vancouver Institute brochure is available by calling the Community Relations Office at 228-3131.

New machinery aids materials research



Electrical engineering technician Tony Leugner (left) will assemble the university's new MBE machine. Physics professor Tom Tiedje is co-manager of the new equipment.

by Jo Moss

UBC researchers can now conduct elaborate and extensive semiconductor research thanks to the university's acquisition of a molecular beam epitaxy (MBE) machine.

"It puts us in the state-of-the-art technology in this area of material science, as well as in developing the devices you make from these materials," said Physics professor Tom Tiedje.

Tiedje and Electrical Engineering professor Lawrence Young are managers of the new equipment.

UBC is now the only university in Canada to own a machine of this type for the growth of semiconductor materials.

The MBE machine is a sophisticated device that builds up tailor-made layers of atoms on semiconductors—substances from which microchips are made. Two semiconductors are gallium arsenide and silicon.

But while silicon is used in most conventional electronic circuits it's gallium arsenide that scientists predict will be the key to faster, smarter computers.

"It's well-known that electrons move around faster in gallium arsenide than in silicon," Tiedje explained. So replacing conventional silicon electronics in computer circuits with gallium arsenide should produce faster-operating electronics.

But while gallium arsenide technology has been successfully applied to some electronic devices, microwave transmitters and compact disc players, for example, and is widely used in fibre optics, scientists are far from producing a personal computer with gallium arsenide technology.

The MBE machine is integral to research in this area because it can grow semiconductor films necessary for state-of-the-art gallium

arsenide circuits. The films are grown atomic layer by atomic layer.

"It's like an atomic spray gun," Tiedje said. "You can choose one kind of molecule for the first layer and pick another kind for the second layer."

Most universities can't afford to buy that kind of high-tech equipment. Worth about \$1 million new on today's market, UBC was able to pick up this three-year old machine for \$130,000—a small fraction of the new price—from a U.S. company that was scaling back its research effort.

UBC received funding from two companies and encouragement from NSERC in the purchase of the machine. The university is anticipating NSERC funds to meet its advancement of the equipment cost.

"It was a good deal," Tiedje said. "It's a tremendous example of the university being very adaptable, non-bureaucratic and flexible when the opportunity arose."

The machine will be up and running within a year, Young said.

Cominco, a world producer of gallium arsenide, put up \$25,000 of the buying price and Microtel Pacific Research, an electronics research company, added \$5,000. Both will be collaborating with scientists on future research.

Tiedje and Young aren't the only scientists who have their eyes on the opportunities the new equipment presents. Other researchers on campus will take advantage of the new technology for related research projects.

Metallurgists hope to use the MBE machine to probe the semiconductor crystal structure; chemists want to examine growth chemistry on crystal surfaces; physicists are interested in how electrons move in atomic-scale structures; and engineers and TRIUMF scientists will have the opportunity to make faster, higher-performance electronic devices.

Saturday science seminars whet high school appetite

by Debora Sweeney

Some of UBC's top scientists are volunteering their time to whet the scientific appetites of Lower Mainland high school students.

They are conducting a series of Saturday morning seminars to demonstrate how exciting scientific research can be.

"UBC has tremendous resources that kids and other segments of the public don't know about," said Dr. Peter Hochachka, winner of the Science Council of B.C.'s 1987 Gold Medal.

Hochachka, who conducted the first seminar, was acclaimed for his research into the way certain animals protect themselves in situations where there is little or no oxygen. He discussed the adventure of travelling to Antarctica to study the Weddell seal—a marine mammal which can hold its breath for up to an hour.

The students also will hear from Dr. Lawrence Weiler, UBC's head of chemistry, who will discuss 'sex and the single insect.' Insects use chemicals to communicate the same way humans use words. Weiler will describe how insects string chemicals together like words in a sentence and release them in different ways to provide emphasis.

Other topics to be discussed include black holes in outer space and a recently discovered hormone produced by the heart which lowers blood pressure.

The pilot project is the brainchild of Dr. Alan Carter, a biologist and former professor at UBC. Working with Dr. David Dolphin, associate dean of science, Carter invited 30 Lower Mainland high school students who are enrolled in advanced placement and international baccalaureate programs to participate.

Carter said he was forced to limit participation to only three students from each school because the first seminar series is being held at the Point Grey campus. Depending on its success, he said he would like to take the series into high schools.

High school teachers are delighted that UBC is opening its doors to students.

"For them to hear speakers that are tops in their field at an institution like UBC is very worthwhile," said Dave Oakley, a science teacher at Eric Hamber Secondary in Vancouver. "It's got to be great for them to go into a lecture hall and talk to pros."

Oakley said so many of his science students were interested in attending the sessions, he had the unfortunate task of turning most of them down.

Law conference studies the future

by Lorle Chortyk

Some of the most controversial social issues of the decade will be examined at a free, two-day conference sponsored by UBC law students on Feb. 12 and 13.

The conference, entitled "Law and the Future/The Future of Law" will feature panel discussions with leading experts in the areas of

maternal/fetal rights, mandatory AIDS testing, immigration control in Canada and aboriginal rights. The conference takes place in Rooms 101/102 of the Curtis Law Building on campus, with panel discussions beginning at 9 a.m. and 2 p.m. each day.

Conference coordinator Lee Rankin, a third-year law student, said wine and cheese receptions will be held following the afternoon

People

Burns reappointed as Dean of Law

The Board of Governors has approved the reappointment of Peter Burns as dean of UBC's Law Faculty for a three-year term beginning July 1.



BURNS

ties of Otago and Auckland before coming to

Burns, a specialist in the fields of criminal law and torts, joined UBC in 1968 and has been dean of the faculty since 1982.

A native of New Zealand, Burns was educated at the University of Otago and taught at the Universi-

ties of Otago and Auckland before coming to Canada. He is the author of numerous books and articles and has been active on a wide range of professional and advisory committees. Last month he was appointed as Canada's representative on the United Nations newly formed Committee against Torture.

* * *

Engineering professor Fred Weinberg has been named a Fellow of The Metallurgical Society. It is the highest award the society bestows and recognizes Weinberg's contributions to the understanding of the solidification of metals.

Weinberg, on faculty at UBC for more than 20 years, has won an international reputation for his research in this area.

* * *

The Canadian Society of Civil Engineering has awarded UBC professor Donald Mavinic the 1987 Keefer gold medal. It is the second such award for Mavinic.

The award is for Mavinic's paper describing ongoing innovative research project to remove nitrogen from wastewater using bacteria.

"It's a breakthrough that's on the fringes of biotechnology," Mavinic said.

* * *

The department of physiology has established a memorial fund to honor the late Kurt Henze, a supervisory technician in the department for more than 30 years.

Mr. Henze died December 14, shortly after his retirement from the University.

The fund will go toward a prize for the best student performance in laboratory classes in physiology.

* * *

UBC's Senate has approved a scholarship honoring the late Ken Young, who served as the university's Registrar from 1980 until his death in 1987.

The \$900 Kenneth G. Young Memorial Scholarship will be available beginning in the 1988-89 winter session to students in the Faculty of Commerce and Business Administration.

Donations for the scholarship can be made through the UBC Development Office, Mary Bollert Hall, 6253 Northwest Marine Drive, Vancouver, B.C., V6T 2A7.

* * *

Dr. Martha L. Donnelly has been appointed Mount Pleasant Legion Professor of Community Geriatrics at UBC.

As head of geriatrics for family practice at the University, Dr. Donnelly also takes over the Short Term Assessment and Treatment Centre or STAT Centre at Vancouver General Hospital.

Gas gun explodes frontiers

by Debora Sweeney

UBC soon will be the first university in Canada to literally explode into new frontiers in material science with a new Dynamic High Pressure Facility.

The facility will be built around a gas gun—a hypervelocity projectile launcher which, when discharged at its target, produces a high-pressure shock wave inducing high compression and extreme temperatures.

A potential user of the gas gun is the aerospace industry, which wants to use lighter materials for new airplanes, according to Dr. Andrew Ng, a UBC physicist who will head the new facility.

"People always come up with new industrial materials, but the problem is how to test them," said Ng. "We're creating conditions not easily achieved by any other means."

The gas gun dates back to the 1960's, when it was built for ballistic missile studies. It is approximately 18 feet long and works in two stages. First, gunpowder is discharged, firing a heavy piston down a tube filled with hydrogen or helium gas. The compressed gas produces a burst of energy which accelerates a small

projectile down a barrel. The projectile hits the target, which is mounted on a plate at the end of the barrel.

Dr. Catherine McCommon, a geological scientist at UBC, is interested in what is happening deep in the centre of the earth where temperatures reach 6,000 degrees centigrade and atmospheric pressure is nearly four million times that on the earth's surface. Using the gas gun is the only way to simulate those temperatures and pressures.

Ng is interested in studying how metal melts under high pressure.

And industries like Vortek, a UBC spin-off company in Vancouver which the Guinness Book of World Records recognized for producing the world's brightest light, want to use the gas gun to develop stronger materials that will withstand extreme heat and pressure, making their products last longer.

The facility will be funded by the Natural Science and Engineering Research Council of Canada (NSERC) at nearly \$700,000 over three years.

The gas gun is in the design stage and should be installed by late summer, said Ng.

Engineers tackle medicine

by Jo Moss

A tourniquet that is too tight, or too loose, can lead to complications in surgery and inflict further injury. A UBC engineering student thinks he can solve the problem.

Gordon McConnell is using his electrical engineering skills to refine a computer-controlled tourniquet to automatically apply just the right amount of pressure.

McConnell's work is part of one of the fastest-growing engineering fields in the country—biomedical engineering. Nearly 40 UBC graduate and undergraduate students are using engineering principles to solve real-life medical problems. In collaboration with the biomedical engineering unit at Vancouver General Hospital, students and faculty are now identifying the needs.

"In any kind of operating environment, a good engineer will be able to identify many different problems and see ways to improve them or do them differently," explains unit director Jim McEwen who also holds an adjunct faculty position at UBC.

"In the course of a four-month student project, we have often gone from defining the problem to having a solution implemented in a clinical environment," he said. "That's a very rapid development."

McConnell has spent a year working on his tourniquet device. Now in the last year of a Masters program in Electrical Engineering, he was involved in developing the first microprocessor-controlled tourniquet at VGH—an instrument that automatically applies pressure on a limb to keep the surgical site bloodless.

But in the operating theatre, the tourniquet couldn't respond to changes in blood pressure.

When used to control the spread of a local anaesthetic, or isolate chemotherapy treatment, tourniquet failure often had fatal consequences.

"I'm developing a way to adapt and control the tourniquet pressure so that at any one time it is no higher than it needs to be," McConnell explained.

His improved device has electronic sensors under the tourniquet to measure the blood movement and relay the information back to a computer. As the blood pulses, the computer increases or decreases the tourniquet pressure.

Although McConnell's device is only a prototype, McEwen is confident that all surgical tourniquets will eventually be upgraded to that standard.

A graduate student in Mechanical Engineering is taking one aspect of the tourniquet a step farther. Martine Breault is developing an improved pneumatic pressure sensor—a device that measures the pressure applied on a patient's body.

Used in a variety of applications in hospital settings, transducers are traditionally bulky and rigid instruments of stainless steel or aluminum.

That will change once Breault's improved model passes clinical tests. It's a slip of sterilized plastic encasing an electronic circuit, so thin and flexible it can be slipped between layers of soft tissue, like muscle or skin.

Ideal for procedures such as joint operations, it can measure pressure inside the operating site and warn surgeons when the level is high enough to cause damage.

More reliable than its predecessors, the new transducer will also be disposable.

"Companies should be able to manufacture it for just a few cents each," Breault explains. "It's so cheap, people can just use it a few times, then throw it away."

Local businesses play an important part in the research and development of biomedical

devices. Not only do medical companies sometimes provide funding for research projects, but they can also determine the feasibility of mass-producing and marketing the final product.

While McEwen says the unit is aggressive in canvassing company participation, he says UBC is losing out on the full spin-off benefits of the new technology.

"We don't get the maximum value because the technology developed is not as widely applied or commercialized as it should be," he said. Companies are slow to see collaboration as an opportunity and other funding for biomedical projects is scarce.

"One way to go ahead without significant funding is to involve students," McEwen said. "It is a good experience for them."



Photo by Warren Schmidt

Engineering graduate student Martine Breault examines a pressure sensor she has developed

GIFTED NATIVES HELPED

by Lorie Chortyk

An enrichment program introduced by a UBC education professor is helping gifted native students realize their creative potential.

Prof. Stanley Blank, a professor of Educational Psychology and Special Education, said the highly verbal, highly competitive nature of conventional enrichment programs hinders rather than helps native students.

"Native students are often less verbal and competitive in the classroom than their counterparts," said Blank. "They place more emphasis on cooperation, which unfortunately places them at a disadvantage in traditional enrichment programs."

Last fall, in conjunction with Saanich school district's Indian Education coordinator Janet Poth and Enrichment/Curriculum consultant Julie Davis, Blank introduced a new component to enrichment programs offered in Saanich schools. It centres on a strategy called creative problem solving, which promotes group effort and a creative, non-traditional approach to solving problems. He and UBC graduate student Vaune Ainsworth offer workshops for Saanich teachers interested in learning the strategy.

"Creative problem solving works well with native students because it enhances the characteristics passed on to them through their culture," said Blank. "We're not trying to mold native students into the existing enrichment program, we're developing one that helps both native and non-native students."

Blank said the program is being offered in regular classrooms as well as to students in enrichment programs.

Mathematics grant awarded

by Lorie Chortyk

A UBC Education professor has been awarded a four-year, \$750,000 grant from the Canadian International Development Agency to improve mathematics education in the Dominican Republic.

Dr. David Robitaille, who heads the Department of Mathematics and Science Education, will use the funds for a major expansion of a teacher training and resource development program he's been operating in the Dominican Republic for the past four years. Robitaille's work was initiated by a request from educators in that country concerned about poor mathematics standards.

"When we began the initial project mathematics levels in the Dominican Republic were extremely low, even for a third world country," said Robitaille.

"We've seen a significant improvement over the past four years, and the CIDA funds will make it possible for us to expand our activities to include additional grade levels and subject areas, and to reach a larger number of schools."

The initial project, funded by the International Development and Research Centre, involved 60 teachers in approximately 20 schools.

Foundation seeks award nominations

The Elsie Gregory MacGill Foundation is inviting nominations for its 1988 Memorial Award.

The \$5,000 award will go to a person who has made an exceptional contribution to education, science, technology or the relief of poverty.

In turn, the person must direct the funds to improve opportunities or the physical environment for women, men and disabled persons; support engineering, applied sciences or women's studies research; or further his or her own post-graduate education in these studies at a Canadian university.

The award commemorates the life and achievements of Dr. MacGill, Canada's first female professional engineer and a leading figure in women's issues.

Nominations should be sent to the Elsie Gregory MacGill Memorial Award Selection

Options stressed for older workers

by Lorie Chortyk

The recent overturning of a lower court ruling on mandatory retirement of two UBC employees by the B.C. Court of Appeal has raised some new questions on the issue of enforced retirement in Canada.

But UBC retirement planning expert Gail Riddell says battles in the courtroom aren't the only solution for Canada's older workers.

"Canada is lagging behind the U.S. and Europe in putting partial work options like phased retirement, job sharing and subsidized

leaves of absence into place for older workers," said Riddell. "Work doesn't have to be an all or nothing proposition for employees aged 55 and up."

Riddell said Canada can't hide from the changing demographics of the workplace. She points out that almost one-third of UBC's 1,800 faculty members are 55 and older.

Faculty Association president Joost Blom said the university does have a standing policy which allows older faculty members to reduce their workload and go on partial salary without losing their benefits.

"Each case is negotiated individually between the faculty member and the administration," he said.



RIDDELL

decade by issuing unwanted "golden handshakes" to older workers.

Alternatives, she says, can benefit both the employer and employee.

"Some companies keep a pool of retired employees as freelance consultants, others have mentoring systems where they bring back experienced workers to train younger employees, and others allow older workers to gradually decrease their work days or to work part time from their homes."

"Older employees can then adjust gradually to retirement, and younger workers benefit from the expertise of more experienced employees," said Riddell.

up and share their inner feelings."

But in Japanese novels, says Tsuruta, the writer bares his soul.

Tsuruta says most modern novels in Japan combine the Western literary form of the novel with traditional Eastern values.

"In a typical North American novel, a hero goes off to experience the world and to gain his individuality," he says. "This theme isn't found in Japanese novels, because the whole idea of individuality is foreign and frightening to most Japanese."

Tsuruta describes the plot of a typical Japanese novel:

"An individualistic but troubled hero goes off on a trip and becomes stranded somewhere far from civilization, surrounded by nature. While he's lost, he meets a nurturing mother figure and goes through a process that takes him back to his traditional values and roots."

"It's a regression theme as opposed to the Western theme of growth."

"The Japanese have done well in terms of modernization, but change is still very unsettling for them. While they realize that they can't avoid the reality of the industrialized world, they can escape to their traditional values and beliefs through modern fiction."

"For the Japanese, it's a cleansing and recuperating process."

Modern novel writing key to understanding Japan

by Lorie Chortyk

If you want to understand the Japanese, a UBC Asian Studies expert suggests you head for the fiction section of your local bookstore.

Kinya Tsuruta, a professor of Japanese literature, says one of the most effective — and enjoyable — ways to learn about Japanese values and beliefs is by reading translations of modern Japanese novels.

"If you're travelling to Japan for business or pleasure, don't expect to learn about how the Japanese think from the people you meet there," says Tsuruta. "Even if you speak Japanese fluently and have all the right contacts, the Japanese are not going to open

STAR awards deadline nears

Scientists and engineers in the workforce can now apply for scholarships worth \$25,000 a year to enter a Masters or Ph.D. program at a B.C. university.

Sponsored by the B.C. Science Council three scholarships will be funded in 1988.

The deadline to apply for the first STAR (Science and Technology Awards for Returning Students) awards is Jan. 31.

Blind children can learn quickly

by Debora Sweeney

A UBC linguist believes she has "exploded the myth" that blind children do not learn language as quickly as sighted children.

For three years, Carolyn Johnson has studied Brian and Gregory, identical twins who just turned four. Brian is blind, his brother can see. Johnson has analyzed their language and how they use it in play and family situations, frame-by-frame, recorded on video tape.

"In terms of language development, these children are neck and neck," she said. "They're on exactly the same schedule so visual impairment is not holding Brian up in anything we can measure in his language."

Johnson believes "untrue" claims about visually impaired children are the result of their environment or other medical complications and not their blindness.

"If you go into a room and observe a mother interacting with her blind child and the blind child is not responsive to his or her environment, it is because the child is not providing the cues the mother needs."

Johnson admits Brian has a distinct advantage because he is learning about his environment next to his sighted brother. When Gregory asks questions based on what he is seeing, Brian also benefits from the answers his mother gives.

That enriched learning environment has enabled Johnson to refute another "myth" about blind children - that they are confused when handling objects similar in shape and size to other objects.

"We found Brian was just as ready to name new objects as Gregory was," said Johnson.

"For example, we gave him a plastic, cone-shaped Melitta coffee filter with a handle on the side. Brian said it was a cup, which was not exactly correct, but it was a reasonable answer given his age and the properties of the object."

Brian's brother Gregory also has benefited from growing up with his blind twin.

"Gregory was taught very early on that when he handed something to Brian, he actually had to put it right into his hands," said Johnson. "Typically, one year olds don't do that, so Gregory was handing things directly to people at a much earlier age than that would normally occur."

Johnson encourages the parents of blind children to get them out playing with sighted children so they can learn language at the same pace. As well, she hopes the results of her ongoing study of the twins' behavior will contribute to helping parents communicate more effectively with their blind children.



Photo by Warren Schmidt

Carolyn Johnson analyses blind and sighted twin brothers, frame by frame, on video-tape

Svelte chickens hold clue to obesity

by Lorie Chortyk

UBC animal scientist Mark Newcombe has discovered a way to produce thinner chickens. He may also have found some clues for medical researchers searching for ways to reduce human obesity.

Newcombe has just finished a three-year study that looked at how to reduce the size of fat cells in chickens. He found that increased starch was the way to go for a thinner bird.

His results provide new information for

poultry producers interested in making their product more desirable to health-conscious consumers. And because chickens produce fat in much the same way as humans, the study serves as a model for researchers looking for ways to manipulate the metabolism of obese humans.

"Chicken has become the food of choice among many North Americans because it's relatively lean, there's not much fat in the muscle tissue, and it's seen as a good alternative to red meat," said Newcombe, who carried out the study with UBC animal science professor Beryl March. "But there can still be significant deposits of fat in poultry."

Newcombe studied more than 750 broiler chickens and laying hens to see if the size and number of fat cells could be reduced by varying the length of feeding time, the type of diet, and the period of time between feedings. He monitored on-going fat production by taking samples of fat deposits, photographing them

under a microscope and using a computer to count the cells.

He found that the type of diet was a major factor in lowering fat production.

"There are two sizes of fat cells in chickens, the larger primary cells and the smaller secondary cells," said Newcombe. "It's the primary cells which determine how fat a bird will be. We found we could reduce the size of these larger cells by increasing starch and lowering fat in the birds' diet."

Newcombe said high energy diets with increased protein would probably result in an even greater drop in fat production, but "there's a limit to how far poultry producers can go in terms of feed costs."

But the information could be useful, he said, in looking at special diets for humans.

Newcombe has just begun a one-year study with 1,300 laying hens to see if increased starch will result in higher egg production.

UBC to underwrite public television series

by Jo Moss

UBC is underwriting an eight-part television series that examines the role and power of television.

Produced by Granada, Television traces the evolution of this electronic information source and the effect it has on the events it covers. The first episode ran Jan. 25.

Supporting educational programs like Television is one way for the university to put its name before 2 million television viewers in the Pacific Northwest.

And it's just one example of the variety of quality programming available on the seventh-most-watched public television station in America—KCTS, Channel 9.

UBC books doing well

by Lorie Chortyk

Many copies of *The Illustrated History of Canada* and *The Historical Atlas of Canada*, two volumes edited or written in part by UBC faculty members, appeared under the Christmas tree last month, according to Vancouver and Toronto booksellers.

Several major bookshops contacted by UBC Reports said the two reference books were popular items with Christmas shoppers.

"We like to recommend reference books for gifts, because they're the kind of works you keep around for a long time," said Vicki Boates, a bookseller at Duthie Books. "The Illustrated History and the Canadian Atlas are first-rate books and they sold very well."

Boates said 164 copies of *The Illustrated History of Canada*, which sells at \$39.95, and 91 copies of *The Historical Atlas of Canada*, \$95, have been sold at Duthie's Robson Street location since they came in stock on Aug. 21.

Elizabeth McSweeney of W.H. Smith Books also reported strong sales of the two books over the Christmas period.

The Historical Atlas of Canada, edited by geography professor Cole Harris, is a 198-page volume which combines the work of 60 researchers and a dozen cartographers across Canada. The volume describes Canada's history from its beginnings to 1800 using maps, graphs, drawings and notes. Work on two additional volumes is under way.

The 574-page *Illustrated History of Canada* outlines Canadian history from the days of the early native peoples to the recent free trade negotiations with the U.S. Prof. Graeme Wynn of the Geography Department and Prof. Arthur Ray of the History Department wrote two of the book's six chapters.

Viewers in Washington and B.C. can tune in to drama, dance, concerts, public affairs, documentaries, nature, science and children's programs on this commercial-free station.

Also showing Monday nights, with the help of UBC, will be a six-part series on America's civil rights years 1954-1965. Titled *Eyes on the Prize*, the program combines archival footage and interviews with more than 100 participants from both sides of the civil rights struggle. It also started Jan. 25.

UBC began underwriting KCTS programming three months ago. It supported *The Story of English*, which ran for nine episodes on Monday nights, and was an informative and entertaining look how 20th century English language dialects developed.

A special documentary on the recent Commonwealth Conference—The Commonwealth Comes to Vancouver—was broadcast with the help of the university and UBC's credits appeared on televisions not only in Canada but throughout the United States.

UBC has also supported *The Nature of Things*, a science show hosted by David Suzuki; and *Oil*, a series on the people who control the black gold and how they influence our lives.

SEXUAL PROBLEMS HARD TO ARTICULATE

by Debora Sweeney

Too many young people are reluctant to discuss serious sexual problems with their physicians, according to UBC Drs. Robin Percival Smith and George Szasz.

Percival Smith, director of student health service and Szasz, the head of UBC's sex therapy clinic, said more than 70 per cent of students polled in a questionnaire would not talk with their doctors about sexual problems.

The questionnaire was distributed to 1,324 people during a 10-day period at student health service, a medical clinic at the Point Grey campus's Health Sciences Hospital. The poll was initiated by Szasz to find out why his sexual medicine clinic at Shaughnessy Hospital gets few referrals from young people.

"I thought of student health service because here's a person who's exposing himself or herself to medical treatment for some reason," he said. "I felt that in the course of that medical contact, the person would open up and say something."

But few students said anything. In fact, less than half — only 634 — completed the questionnaire. Of those people, 80 per cent said they felt dissatisfaction or concern about

some aspects of sex.

"The significance of this is not so much that it represents what the 24,000 students on campus are thinking," said Percival Smith, "but the people who admit to suffering and come to medical institutions still don't alert us to their sexual concerns."

Many women who filled out the questionnaire said they experienced pain during intercourse and nearly 70 men said they had problems with ejaculation. But only a fraction of them said they would seek medical help.

"The problem for our staff is always the same," said Percival Smith. A young man may come in intending to talk about his erection problem, takes one look at the nurse and says, "I've got a cold."

If anxieties are not stated, the problems get worse, both doctors warned. The majority of sexual problems are solved with education, reassurance, acceptance and suggestions.

"Much of sex is learned and I would think most of us have never learned it properly," said Szasz. "It's not unlike driving a whole bunch of people to the tennis court and shoving a racquet into their hands and saying go to it. They might say, I'm not interested, or I can't hit the ball, or what kind of a game is this?"

Office politics - ignore them at your peril

by Jo Moss

Practising office politics isn't dirty—it's a game.

Commerce professor Peter Frost says office politics are neither good nor bad, they are simply a fact of life.

Frost, a specialist in organizational behavior, advises finding out what is involved in the politics game and applying a few basic rules.

Ignore them, he warns, and you could be left out in the cold.

"It's not enough just to do your job well and hope you will be recognized for your true worth," Frost explained. "There are cases of

people doing their job well and getting fired for their efforts. Other people, who don't seem to do their job particularly well, often get ahead."

Employee Jane, for example, works hard but doesn't get noticed by her superiors. Susan, on the other side of the office, gets all the plums. Jane doesn't think Susan's work is all that good, but the boss obviously does.

Jane must realize, Frost said, that the boss is determining a good deal of the reality of the situation. She has to make the boss understand why her work is just as important.

"That's office politics, but it's not dirty politics," Frost said. "Perception is very much the reality in organizations. You have to translate what you do into the other person's 'language'. For example, if your boss likes dealing with graphs and statistics and you're an ideas person, you will have to couch your ideas in graphic and statistical terms that your boss can relate to."

To make your manager's job easier, blow your own horn from time to time. Frost says managers are swamped with information and you cannot assume your best work is noticed—or understood.

Find another employee to champion your cause. Frost advises building a network and connecting to other people in the organization.

"People forget their office is a social organization with a culture, status differences, and power relationships. If you really want to take charge of your life in such a world, you have to pay attention to personal relationships."

According to Frost, bosses value employees who take the uncertainty out of their lives by handling the tricky issues for them.

"There's no right or wrong in any situation," Frost explained. "Whoever has the most power—your boss or the manager—determines what is 'right.'"

Some people make office politics a dirty game by playing it exclusively for personal gain, with no concern for the well-being of the organization or of colleagues. That's the way office politics is typically represented, Frost said.

But if you want to make yourself visible and have your contributions to the office valued and appreciated, recognize that there are compelling perceptions of what is valued—and understand the way power works in your organization.

Rhodes scholar believes in balanced courses

by Lorie Chortyk

First-year law student Robert Wai admits he was a little nervous when he met the other eight finalists for the 1988 B.C. Rhodes Scholarship the day before the winner was announced.

"We were all together at a reception and I remember being amazed by all the things these students had accomplished," said Wai.

But his nervousness vanished the next day when he received a call telling him he'd been chosen as the 1988 winner.

The \$15,000 scholarship, one of 11 awarded in Canada this year, allows Wai to study at Oxford University from 1988 to 1990, with an option for a third year.

He plans to finish his law degree and then pursue graduate study in either administrative law or economics.

"I've always been fascinated by politics and policy-making," said Wai. "The scholarship gives me the chance to follow up this area of study."

Rhodes scholars are selected for their academic accomplishments, interest and success in sports, qualities of leadership and involvement in community service.

Wai's list of achievements includes winning the Gold Medal for economics at McGill University (where he earned his undergraduate degree in Commerce,) editing the McGill Journal of Political Economy and the news section of the university yearbook, being

president of the McGill badminton team, tutoring high schools students, and doing volunteer work with housebound elderly people.

How does it feel to be singled out as one of Canada's brightest students?

"Lucky," said Wai.

"I'm sure there are people who are as smart and who work as hard as me. I've just been incredibly lucky to have the family support I've had, to have good teachers and to have a lot of opportunities to pursue my education."

Wai's philosophy is to try and maintain a balance in his activities.

"Although my degree is in commerce, I tried to take as many literature, philosophy and political theory courses as I could," he said.



ROBERT WAI

UBC Calendar from page 8

Classic SubFilms

A Midsummer Night's Dream, the 1935 Version. Tickets \$2. For information call 228-3698. SUB Theatre, SUB. 12:40, 7:00, 9:30 p.m.

Chemistry Seminar

Some Aspects of the Chemistry of Biological Sulfur and Selenium Compounds. Professor Dallas L. Rabenstein, Chemistry, University of California, Riverside. For information call 228-3266. Room 250, Chemistry Building. 1:00 p.m.

Oceanography Seminar

The Significance of Fish Diet Vertical Migrations: New Theory and Field Tests. Dr. D. Levy, Resource Ecology. For information call 228-5210. Room 1465, Biological Sciences Building. 3:30 p.m.

Visiting Speakers Seminar

Yellow River Delta: Morphology and Sedimentary Processes. Dr. B. Bornhold, Pacific Geoscience Center. For information call 228-6179. Room 330A, Geological Sciences Centre. 3:30 - 4:30 p.m.

Biotechnology Laboratory Seminar

Molecular Characterization of Seed Specific Genes in Arabidopsis Thaliana. Dr. Patty P. Pang, Biology, California Institute of Technology. For information call 228-4838. Room 2000, Biological Sciences Building. 4:00 p.m.

Lecture Series for Physics Teachers

Particle Detection. M. Salomon. For information call TRIUMF Information Office at 222-1047. Free Parking beside TRIUMF buildings. TRIUMF Auditorium. 7:00 - 8:00 p.m.

WEDNESDAY, FEB 10

Pharmacology & Therapeutics Seminar

Sarcolemmal Regulation of Ca²⁺ Transport in the Heart. Dr. G. Tibbits, Kinesiology, S.F.U. For information call 228-2575. Room 317, Basic Medical Sciences Building, Block C. 12:00 noon.

Noon-Hour Series

Sponsored by School of Music. Pierre-Henri Xuereb, viola; Jean-Louis Hagenauer, piano. Admission by donation. For information call 228-3113. Recital Hall, Music Building. 12:30 p.m.

Centre for Policy Studies in Education Seminar

A Presentation of the International Association for the Evaluation of Educational Achievement (IEA). Dr. A. Purvis, Albany; Dr. Z. Bathory, Hungary; Dr. I. Marklund, Sweden. For information call 228-5422. Room 210, Scafe Building. 12:30 - 2:30 p.m.

Religious Studies Seminar

Diapora Triumphalism in the Writing of Modern Jewish History. Professor T. Endelman, History, University of Michigan. For information call 228-5825. Penthouse, Buchanan Building. 1:30 - 3:30 p.m.

Geography Colloquium

Disturbance and Renewal in Complex Systems: Lessons from Ecosystem Research. Professor G.S. Holling, Resource Ecology. For information call 228-2663. Room 201, Geography Building. 3:30 p.m.

Ecology-Resource Ecology Seminar

Economics of Anti-Predator Behaviour. Dr. Larry Dill, S.F.U. For information call 228-4329. Room 2449, Biological Sciences Building. 4:30 p.m.

Pharmaceutical Sciences Seminar

Marketing Planning. Mr. Stan Lisack, Director, External Relations Astra Pharma Inc. For information call 228-3183. Lecture Hall #1, IRC. 4:30 - 6:30 p.m.

Jazz Live

Sponsored by Graduate Student Society. Al Wolke, piano. For information call 228-3203. Fireside Lounge, Graduate Centre. 5:30 - 8:00 p.m.

Bridge

Sponsored by Graduate Student Society. Beginners welcome. For information call 228-3203. Fireside Lounge, Graduate Centre. 6:00 p.m.

Centre for Continuing Education Lecture

Flexible Employment Arrangements. Bruce O'Hara, Director, Work Well, Victoria; Sid Shniad, Researcher, Telecommunication Workers' Union; Anne Ironside, Past President CAAE. For information call 222-5238. Lecture Hall #4, IRC. 7:30 p.m. - 9:00 p.m.

Collegium Musicum Ensembles

Sponsored by School of Music. John Sawyer, Ray Nurse, Morna Russell, directors. Free. For information call 228-3113. Recital Hall, Music Building. 8:00 p.m.

THURSDAY, FEB. 11

Family and Nutritional Sciences Lecture

Feminism: Implications for Family Theory. Dr. Kathryn McCannell, Social Work. For information call 228-4682. Room 220, Family and Nutritional Sciences Building. 12:30 p.m.

Collegium Musicum Ensembles

Sponsored by School of Music. John Sawyer, Ray Nurse, Morna Russell, directors. Free. For information call 228-3113. Recital Hall, Music Building. 12:30 p.m.

Religious Studies Lecture

The So-Called Irrelevance of German Jewish History. Professor T. Endelman, History, University of Michigan. For information call 228-5825. Room A202, Buchanan Building. 12:30 p.m.

Faculty Association General Meeting

For information call 228-3883. Room 100, Mathematics Building. 1:00 p.m.

English Colloquium

Scent, Echo, Reflection: Linking Techniques in Renga (Japanese Linked Poetry) and in B.P. Nichol's *The Martyrology*. Dr. Hilary Clark. Penthouse, Buchanan Building. 3:30 p.m.

Psychology Colloquium

Hedonism is Alive and Well. Dr. Robert Bolles, Psychology, University of Washington. For information call 228-2755. Room 2510, Kenny Building. 4:00 p.m.

Physics Colloquium

High Pressure Physics. Dr. W.J. Nellis, Livermore Lab. For information call 228-3853. Room 201, Hennings Building. 4:00 p.m.

Biotechnology Seminar

An Inducible Amber Suppressor Mammalian Host Cell System. Dr. John Sedivy, Centre for Cancer Research and Department of Biology, MIT. For information call 228-4838. Lecture Hall #3, IRC. 4:00 p.m.

Guest Artist Series

Sponsored by School of Music. Schmidt, guitar; Verdery, flute. Tickets \$8 general, \$4 students/seniors. For information call 228-3113. Recital Hall, Music Building. 8:00 p.m.

Masterpieces of Film

Sponsored by Graduate Student Society. Woman in the Dunes (1955) Japan, d. Teshigahara. For information call 228-3203. Fireside Lounge, Graduate Centre. 8:00 p.m.

FRIDAY, FEB. 12

3rd Annual Conference on Law & Contemporary Social Issues

Panel on Immigration. For information call 228-3151. Rooms 101, 102, 201 (Main Lecture Hall), G.F. Curtis Building. 9:00 a.m.

Health Care & Epidemiology Rounds

Risk Assessment at a Local Site. Dr. Clyde Hertzman, Health Care & Epidemiology. For information call 228-2772. Room 253, James Mather Building. 9:00 - 10:00 a.m.

Contemporary Players

Sponsored by School of Music. Stephen Chatman, director. Free. For information call 228-3113. Recital Hall, Music Building. 12:30 p.m.

Rehabilitation Medicine Seminar

Structural and Functional Regeneration in the Skeletal Muscle of the MDX Mouse. Dr. Judy Anderson, Anatomy. For information call 228-7392. Lecture Hall #1, IRC. 12:30 - 1:30 p.m.

Pharmaceutical Sciences Seminar

Benzodiazepine Use and Metabolism in the Elderly. Dr. John Kennedy, Riverview Hospital. For information call 228-3183. Lecture Hall #3, IRC. 12:30 - 1:30 p.m.

Centre for Policy Studies in Education Seminar

The Link Between Educational Research Policy and Everyday Life in the Classroom: The Case of Sweden. Dr. Inger Marklund, Sweden. For information call 228-2593. Room 123, Ponderosa Annex H. 12:30 - 2:00 p.m.

Medical Genetics Seminar

Molybdenum Cofactor Deficiency Diagnosis, Biochemistry, Management & Prenatal Diagnosis. Drs. L. Wong, J.E. Jan, A.Q. McCormick, F. Bamforth, G. Lokich, Children's Hospital, Dr. S. Bamforth, Medical Genetics. For information call 228-5311. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak Street, Vancouver. 1:00 p.m.

3rd Annual Conference on Law & Contemporary Social Issues

Panel on Native Fishing Rights. For information call 228-3151. Rooms 101, 102, 201 (Main Lecture Hall), G.F. Curtis Building. 2:00 p.m.

Beer Garden

Sponsored by Graduate Student Society. For information call 228-3203. Ballroom, Graduate Centre. 4:00 - 7:30 p.m.

Darts Night

Sponsored by Graduate Student Society. For information call 228-3203. Fireside Lounge, Graduate Centre. 7:30 p.m.

B.C. Skeptics Lecture

The Mystic, The Skeptic and The Parapsychologist. Leonard Angel, Philosophy. For information call 228-4658. Woodward G53-55, IRC/Woodward Library. 7:30 p.m.

Valentines Dance

Sponsored by Graduate Student Society. Live Band Free Radicals from Chemistry. For information call 228-3203. Fireside Lounge, Graduate Centre. 8:00 - 12:00 p.m.

SATURDAY, FEB 13

3rd Annual Conference on Law & Contemporary Social Issues

Panel on AIDS. For information call 228-3151. Rooms 101, 102, 201 (Main Lecture Hall), G.F. Curtis Building. 9:00 a.m.

Centre for Continuing Education Workshop

A Young Woman's Guide to Preventing Osteoporosis. Dianne Arbuckle, Graduate Student in Human Nutrition. For information call 222-5238. Conference Room, Centre for Continuing Education, 5997 Iona Drive, Campus. 9:30 - 12:30 p.m.

3rd Annual Conference on Law & Contemporary Social Issues

Panel on Maternal/Fetal Rights. For information call 228-3151. Rooms 101, 102, 201 (Main Lecture Hall), G.F. Curtis Building. 2:00 p.m.

THE VANCOUVER INSTITUTE



Saturday, Feb. 6

Education and Society: Insights from the Past. Dean Nancy Sheehan, Faculty of Education, University of B.C.

Saturday, Feb. 13

Viruses, Cancer and AIDS: Today and Tomorrow. Dr. Robert Gallo Chief, Laboratory of Tumor Cell Biology National Cancer Institute, Bethesda, Maryland. Lecture Hall 2, Woodward Instructional Resources Centre. Free. 8:15 p.m.

NOTICES

Copying in the Libraries?

Save time and money with a UBC Library copy card. \$5 cards sold in all libraries; \$10, \$20 or higher cards in Copy Services, Main or Woodward. Cash/departamental requisition only. For information call 228-2854.

SUB Loop Library Book Returns

The library book returns have been moved due to construction of the parkade. Please return books to the appropriate libraries. Afterhours, books may be returned to the larger libraries. For information call 228-3869.

French Exhibition

Now until February 5. M-F, 11:30 a.m. - 1:30 p.m. Benjamin CONSTANT: Une Vie au Service de la Liberté, 1787-1830. For information call 228-2879. Room 899, Buchanan Tower.

Assertiveness For Women

Tuesdays, Feb. 2, 9, 16. 12:30 - 2:00 p.m. This workshop provides an introduction to basic communication skills. Free. For information call 228-2415. Brock 106A.

3rd Annual Conference on the Law & Contemporary Social Issues

Fri., Feb. 12, 9 a.m. - Panel on Immigration; 2 p.m. - Panel on Native Fishing Rights; Sat., Feb. 13, 9 a.m. - Panel on AIDS; 2 p.m. - Panel on Maternal/Fetal Rights. Free. For information call 228-3151. Rooms 101, 102, 201. Main Lecture Hall, G.F. Curtis Building.

Biotechnology Seminar

Feb. 16 (IRC #1), 18 (Seminar Room 201, Wesbrook), 23 (IRC #1), 25 (Seminar Room 201, Wesbrook), 9:30 a.m. Utilization of Lignocellulose: What contribution can biotechnology make? Professor P.A.M. Broda, Biochemistry and Applied Molecular Biology, University of Manchester Inst. of Science and Technology, England, U.K. For information call 228-4838.

Psychology Research Study

Couples, aged 30-60, needed for research on effects of communication on bodily responses. Experiment conducted in UBC Psychology Department. Personal feedback and stress management information provided. For information call James Frankish, 734-2979. Kenny Building.

Computing Centre Non-credit Courses

The Computing Centre is offering a series of free non-credit courses during January, February and March. These courses are intended primarily for members of the university community who plan to use the facilities of the Computing Centre. A complete list of courses is available by calling 228-6611, or you can pick up a schedule from the Computing Centre general office (CSCI 420).

Centre for Continuing Education Public Forum

Fri., March 18 (7:30 - 9:30 p.m.), Sat., March 19 (9:30 a.m. - 4:30 p.m.). Free Public Forum on The B.C. Debate on the Meech Lake Accord. Senators Lowell Murray, Eugen Forsey, and others. For information call 222-5238. Lecture Hall #2, IRC.

Fitness Appraisal

Physical Education & Recreation, through the John M. Buchanan Fitness and Research Centre, is administering a physical fitness assessment program to students, faculty, staff and the general public. Approx. 1 hour. \$25, students \$20. For information call 228-3996.

Badminton Club

Faculty, Staff & Graduate Student Badminton Club meets Tuesdays 8:30 - 10:30 p.m. and Fridays 7:30 - 9:30 p.m. (except Jan. 29) in Gym A of the Robert Osborne Sports Centre. For information call Bernie 228-4025 or 631-9966.

Parents Wanted

For Psychology research project. Parents of children aged 5 to 12 years are wanted for a project studying parenting. Approx. 1 hour. Contact Dr. C. Johnston, Clinical Psychology at 228-6771.

Student Counselling and Resources Centre

'Students Helping Students' is a service that provides disabled students with assistance in disability-related tasks affecting school. For information call 228-4840.

Statistical Consulting and Research Laboratory

SCARL is operated by the Department of Statistics to provide statistical advice to Faculty and graduate students working on research problems. For information call 228-4037. Forms for appointments available at Room 210, Ponderosa Annex C.

Language Exchange Program

Exchanging Languages on a One-to-One Basis. For information call 228-5021. International House. Office Hours: 9:30 a.m. - 4:30 p.m.

Walter Gage Toastmasters

Public speaking and leadership meeting. Guests are welcome to attend, ask questions, and participate. For information call Geoff Lowe at 261-7065. Room 215, SUB.

Nitobe Memorial Garden

Open Monday to Friday 10:00 a.m. - 3:00 p.m. Free. Closed weekends.

Botanical Garden

Open daily 10:00 a.m. - 3:00 p.m. Free.

Reading, Writing & Study Skills

The UBC Reading, Writing & Study Skills Centre is offering 21 non-credit courses this term, including Writing Business Letters and Memos, Writing Effective Reports, Writing Proposals, Robert's Rules of Order: Demystified, Media Interview Techniques, and several correspondence courses. For registration information, phone 222-5245.

UBC Calendar

MONDAY, FEB. 1

Noon-Hour Seminar

Sponsored by B.C. Cancer Research Centre. Screening for Breast Cancer: Why? Who? How? Dr. V.E. Basco, Radiation Oncology, CCABC. For information call 877-6010. Lecture Theatre, BCCRC, 601 West 10th Avenue. 12:00 noon.

Asian Research Noon-Hour Films

Breaking Ground for Freedom, Little by Little: Upgrading Barrio Escopa. Documentary Films on Social Revolution in the Philippines. For information call 228-2746. Auditorium, Asian Centre. 12:30 p.m.

Plant Science Seminar

A Neophyte's View of the Ethiopian Highlands. Dr. Brian Holl, Plant Science. For information call 228-6420. Room 342, MacMillan Building. 12:30 p.m.

Mechanical Engineering Seminar

Modelling Airfoil Stall; Side Force Alleviation in Pointed Forebodies. W. Yeung, Graduate Student; A. Stewart, Graduate Student. Room 1215, Civil & Mechanical Engineering Building. 3:30 p.m.

Commerce Policy Workshop

Monopoly Investment, Sales & Capacity Utilization under Uncertainty. D. Nickerson, Commerce. For information call 224-8475. Room 419, Henry Angus Building. 3:30-5:00 p.m.

Biomedical Discussion Group Seminar

Regulatory Elements for the Xenopus Ribosomal Multi-Gene Family. Dr. R. Reeder, Fred Hutchinson Cancer Research Center, Seattle. For information call 228-3027. Lecture Hall #4, IRC. 3:45 p.m.

Astronomy Seminar

Spectro Polar Imagery and the Structure of Active Galactic Nuclei. Dr. J. Miller, Lick Observatory, University of California, Santa Cruz. For information call 228-4134. Room 260, Geophysics & Astronomy Building. 4:00 p.m.

Video Night

Sponsored by Graduate Student Society. African Queen and Treasure of the Sierra Madre. Free. For information call 228-3203. Fireside Lounge, Graduate Centre. 6:00 and 8:00 p.m.

Classic SubFilms

Sponsored by UBC Film Society. Bananas, starring Woody Allen. Tickets \$2. For information call 228-3698. SUB Theatre, SUB. 7:00 and 9:30 p.m.

TUESDAY, FEB. 2

Early Childhood Education Research Colloquium

Children's Art. Pat Tarr, Child Study Centre. For information call 228-5232. Room 203, Ponderosa F Building. 12:00 - 1:30 p.m.

Botany Seminar

The Cellulase System of Cellulomonas Fimi; Characterization of its Genes and Proteins. Tony Warren, Microbiology. For information call 228-2133. Room 2000, Biological Sciences Building. 12:30 p.m.

Pharmaceutical Sciences Lecture

How to Get Across What You Want by Giving the Media What They Want. Lorraine Graves, T.V. Science Reporter. For information call 228-3428. Lecture Hall #3, IRC. 12:30 p.m.

Classic SubFilms

Sponsored by UBC Film Society. Othello, starring Laurence Olivier. Tickets \$2. For information call 228-3698. SUB Theatre, SUB. 12:40, 6:30, and 9:30 p.m.

Chemistry Seminar

Luminescence and Chromatography in Organized Media. Professor Linda J.C. Love, Department of Chemistry, Seton Hall University. For information call 228-3266. Room 250, Chemistry Building. 1:00 p.m.

Animal Science Seminar

Water Quality in Aquaculture. Dr. Harold Rosenthal, Anstad Helgokund, Hamburg, F.R.G. For information call 228-6846. Room 166, MacMillan Building. 2:30 p.m.

Oceanography Seminar

The Annual Mean Circulation and Refluxing in Puget Sound. Dr. E.D. Cokelet, Pacific Marine Environmental Laboratory, Seattle, Washington. For information call 228-5210. Room 1465, Biological Sciences Building. 3:30 p.m.



Photo by Warren Schmidt

Themes from alchemy represent processes of invention and discovery in an exhibition by UBC Fine Arts professor Richard Prince. "Search (into matter)" is an exhibition of his three new sculptural works on display at the Fine Arts Gallery until Feb. 6.

Biotechnology Laboratory Seminar

Efficient Cloning of Genes of Neurospora Crassa. Dr. Steven J. Vollmer, Codon, San Francisco, California. For information call 228-4838. Room 2000, Biological Sciences Building. 4:00 p.m.

Philosophy Lecture

Wherein is Language Social? Professor Tyler Burge, Philosophy, University of California, Los Angeles. For information call 228-2511. Room D327, Buchanan Building. 4:00 p.m.

Lecture Series for Physics Teachers

Cyclotrons, M. Craddock, TRIUMF. For information call TRIUMF Information office at 222-1047. Free parking beside TRIUMF Buildings. TRIUMF Auditorium. 7:00 - 9:00 p.m.

Environmental Interest Group Lecture

Our Common Future - The Role of the International Economy in Sustainable, Global Development. Mr. Geoff Hainsworth, Economics. For information call 224-0299. Lecture Hall #2, IRC. 7:30 - 9:30 p.m.

WEDNESDAY, FEB 3

Pharmacology & Therapeutics Seminar

Human Neural Cells in Culture. Dr. S. Kim, Division of Neurology, Medicine. For information call 228-2575. Room 317, Basic Medical Sciences Building, Block C. 12:00 noon.

Noon-Hour Series

Sponsored by School of Music. Gerald Stanick, viola. For information call 228-3113. Recital Hall, Music Building. 12:30 p.m.

Panel Discussion

Sponsored by UBC Pugwash. Ethics of Fetal Tissue and Organ Transplantation. Dr. E. Winkler, Philosophy; Dr. M. Norman, Pathology; Dr. B. McGilivray, Medical Genetics. For information call 228-5245. Room 211, SUB. 12:30 p.m.

Geography Colloquium

River-Sea Vessels in the Soviet Union and Western Europe. Robert North, Geography. For information call 228-2663. Room 201, Geography Building. 3:30 p.m.

Applied Mathematics Seminar

Darwin's Mathematical Legacy. Dr. Colin W. Clark, Mathematics. For information call 228-4584. Room 229, Mathematics Building. 3:45 p.m.

Biotechnology Laboratory Seminar

Human Fragile X Syndrome of Mental Retardation: Clues from Drosophila and Human Embryology. Dr. Charles Laird, Zoology, University of Washington. For information call 228-5433. Lecture Hall #4, IRC. 4:00 p.m.

Ecology-Resource Ecology Seminar

Gene Flow: Estimation and Implications. Dr. Conrad Wehrhahn, Zoology. For information call 228-4329. Room 2449, Biological Sciences Building. 4:30 p.m.

Jazz Live

Sponsored by Graduate Student Society. Ron Johnston, keyboard; Rene Worst, bass. For information call 228-3203. Fireside Lounge, Graduate Centre. 5:30 - 8:00 p.m.

Calendar Deadlines

For events in the period February 14 to February 27, notices must be submitted on proper Calendar forms no later than 4 p.m. on Wednesday, February 3 to the Community Relations Office, 6328 Memorial Road, Room 207, Old Administration Building. For more information, call 228-3131.

Medical Genetics Seminar

Clinical Case Presentations. Faculty, Medical Genetics. For information call 228-5311. Parentcraft Room, Main Floor, Grace Hospital, 4490 Oak Street, Vancouver. 1:00 p.m.

Beer Garden

Sponsored by Graduate Student Society. For information call 228-3203. Ballroom, Graduate Centre. 4:00 - 7:30 p.m.

DJ Night

Sponsored by Graduate Student Society. For information call 228-3203. Fireside Lounge, Graduate Centre. 7:00 - 12:00 p.m.

Darts Night

Sponsored by Graduate Student Society. For information call 228-3203. Fireside Lounge, Graduate Centre. 7:30 p.m.

UBC Symphonic Wind Ensemble

Sponsored by School of Music. Martin Berinbaum, director. Free. For information call 228-3113. Recital Hall, Music Building. 8:00 p.m.

MONDAY, FEB 8

Noon-Hour Seminar

Sponsored by B.C. Cancer Research Centre. Occupational Cancer Risks in British Columbia. Mr. Richard Gallagher, Epidemiology, Biometry and Occupational Oncology, CCABC. For information call 877-6010. Lecture Theatre, BCCRC, 601 West 10th Avenue. 12:00 noon.

Faculty Recital

Sponsored by School of Music. Alice Enns, piano. Free. For information call 228-3113. Recital Hall, Music Building. 12:30 p.m.

Noon-Hour Film

Life Begins in January: A Documentary Film on Cambodian Refugees in a Thai Refugee Camp. Institute of Asian Research. Free. For information call 228-2746. Auditorium, Asian Centre. 12:30 p.m.

Chemistry Seminar

¹H NMR Studies of Biological Fluids and Intact Cells. Professor Dallas L. Rabenstein, Chemistry, University of California, Riverside. For information call 228-3266. Room 225, Chemistry Building. 2:30 p.m.

Biochemical Discussion Group Seminar

Electrostatic Interactions in Proteins and Nucleic Acids. Dr. James B. Matthews, Du Pont Corp., Wilmington, Delaware. For information call 228-3719. Lecture Hall #4, IRC. 3:45 p.m.

Applied Mathematics Seminar

Shallow Water Waves with Slowly Varying Froude Number. Dr. J. Keavorkian, Applied Mathematics, University of Washington. For information call 228-4584. Room 229, Mathematics Building. 3:45 p.m.

Astronomy Seminar

Interpretation of Wolf Rayet Spectra. Dr. Anne Underhill, Geophysics and Astronomy. For information call 228-4134. Room 260, Geophysics & Astronomy. 4:00 p.m.

Division of Preventive Medicine & Health Promotion

Employee Assistance Programs: Making it Happen. Dr. Harv Haakonson, President, HealthServ, Occupational Health Management Consulting. For information call 228-2258. Room 253, James Mather Building. 4:00 - 5:30 p.m.

Zoology Seminar

Evolution and Biology of Fish Antifreeze Proteins. Dr. Peter Davies, Biochemistry, Queens University. For information call 228-6745. Room 2000, Biological Sciences Building. 4:30 p.m.

Pharmaceutical Sciences Seminar

Marketing Research. Mr. Dennis Nolan, Marketing Research Manager, Ciba-Geigy Canada Ltd. For information call 228-3183. Lecture Hall #1, IRC. 4:30 - 6:30 p.m.

Video Night

Sponsored by Graduate Student Society. Witness and The Color Purple. For information call 228-3203. Fireside Lounge, Graduate Centre. 6:00 and 8:00 p.m.

Classic SubFilms

Sponsored by UBC Film Society. Casablanca. Tickets \$2. For information call 228-3698. SUB Theatre, SUB. 7:00 and 9:30 p.m.

TUESDAY, FEB. 9

Botany Seminar

Physiological and Developmental Aspects of Palm Seed Germination. Darleen DeMason, University of California, Riverside. For information call 228-2133. Room 2000, Biological Sciences Building. 12:30 p.m.

Continued on Page 7

UBC Reports is published every second Thursday by UBC Community Relations 6328 Memorial Road, Vancouver, B.C. V6T 1W5, Telephone 228-3131.
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